



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application:	)	Examiner:	Not yet assigned
Cubukcu et al.	)		
	)		
Serial No.: 10/612,330	)	Group Art Unit:	Not yet assigned
	)		
Filed: July, 2, 2003	)		
	)		
For: CERAMIC COMPOSITE	)		
ELECTROLYTIC DEVICE	)	Docket No. 21980-04012	
AND METHOD	)		
	)		

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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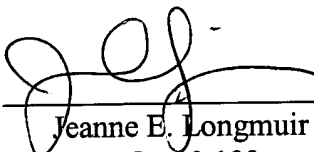
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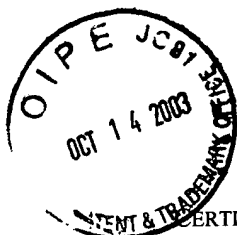
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Respectfully submitted,

Date: 10/9/03

By:   
Jeanne E. Longmuir  
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CERTIFICATE OF MAILING

I hereby certify that this *Information Disclosure Statement* is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 9th day of October, 2003.

LORI YAN EFF  
21980/04012

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Dear Sir:

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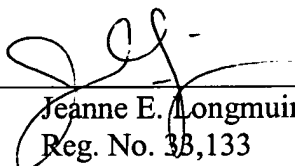
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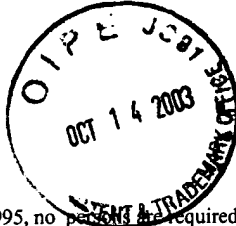
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3

### Complete if Known

Application Number	10/612,330
Filing Date	July 2., 2003
First Named Inventor	Cubukcu et al.
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	21980/04012

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		4,659,448		Gordon	04/21/1987	
		4,764,488		Saito et al.	08/16/1998	
		4,789,561		Schaefer et al.	12/06/1995	
		4,867,902		Russell	09/19/1989	
		5,069,987		Gordon	12/03/1991	
		5,200,279		Draper et al.	04/06/1993	
		5,209,989		Ishihara et al.	02/11/1991	
		5,234,722		Ito et al.	08/10/1993	
		5,238,754		Yasuo et al.	08/24/1993	
		5,256,499		Minh et al.	11/26/1993	
		5,258,240		DiCroce et al.	11/02/1993	
		5,261,944		Lockhart et al.	11/16/1993	
		5,270,129		Ishida	12/14/1993	
		5,273,837		Aitken et al.	12/28/1993	
		5,279,906		Yoshimura et al.	01/18/1994	
		5,281,490		Nishioka et al.	01/25/1994	
		5,286,580		Ippommatsu et al.	02/15/1994	
		5,290,642		Minh et al.	03/01/1994	
		5,292,599		Soma et al.	03/08/1994	
		5,306,411		Mazanec et al.	11/27/1990	
		5,312,700		Ishida	05/17/1994	
		5,326,650		Ishida	07/05/1994	
		5,330,859		McPheeters et al.	07/19/1994	
		5,332,483		Gordon	07/16/1994	
		5,336,569		Misawa et al.	08/09/1994	
		5,342,703		Kawasaki et al.	08/30/1994	
		5,354,626		Kobayashi et al.	10/11/1994	
		5,358,735		Kawasaki et al.	10/25/1994	
		5,368,951		Shiratori et al.	11/29/1994	
		5,372,895		Sato et al.	12/13/1994	
		5,376,468		Arai et al.	12/27/1994	

Examiner  
Signature

Date  
Considered

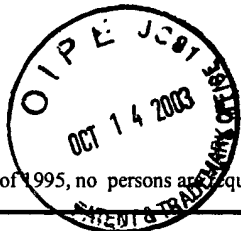
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Sheet 2 of 3

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		5,385,792		Shiratori et al.	01/31/1995	
		5,405,712		Yoshimura et al.	04/11/1995	
		5,409,371		Gordon	04/25/1995	
		5,413,879		Domaracki et al.	05/09/1995	
		5,418,081		Kawasaki et al.	05/23/1995	
		5,429,644		Arai et al.	07/04/1995	
		5,445,902		Soma et al.	08/29/1995	
		5,453,330		Kawasaki et al.	09/26/1995	
		5,460,897		Gibson et al.	10/24/1995	
		5,474,800		Matasuzaki	12/12/1995	
		5,480,739		Kawasaki et al.	01/02/1996	
		5,486,428		Gardner et al.	01/23/1996	
		5,496,655		Lessing	03/05/1996	
		5,500,306		Hsu et al.	03/19/1996	
		5,500,307		Anzai et al.	03/19/1996	
		5,514,353		Adlhart	05/07/1996	
		5,518,830		Worrell et al.	05/21/1996	
		5,527,633		Kawasaki et al.	06/18/1996	
		5,531,019		Taira et al.	07/02/1996	
		5,541,014		Micheli et al.	07/30/1996	
		5,551,955		Taira et al.	09/03/1996	
		5,554,454		Gardner et al.	09/10/1996	
		5,573,867		Zafred et al.	11/12/1996	
		5,585,203		Chikagawa et al.	12/17/1996	
		5,589,017		Minh	12/31/1996	
		5,591,537		Bagger et al.	01/07/1997	
		5,595,833		Gardner et al.	01/21/1997	
		5,614,127		Khandkar et al.	03/25/1997	
		5,624,542		Shen et al.	04/29/1997	
		6,074,771		Cubukcu et al.	06/13/2000	
		6,496,655		Malloy Desormeaux	12/17/2002	
		H1260		Towe	12/07/1993	

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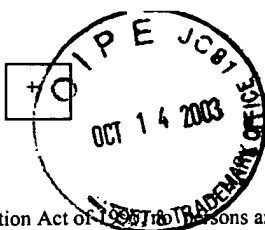
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
		WO	94/06545	A1	University	03/31/1994		
		WO	94/26684	A1	The Arizona	07/24/1997		

### OTHER ART

	Fuel Cells written by Nguyen Q. Minh at pages 561-608, 1996.
	Fuel Cells and Their Applications by Karl Kordesch and Günter Simader. Republic of Germany, 1996. Solid Oxide Fuel Cells (SOFC) at pp. 133-151.
	Fuel Cell Technology: Status and Future Prospects written by A.J. Appleby at pages 521-653, 1993.
	A Small Portable Proton Exchange Membrane Fuel Cell and Hydrogen Generator for Medical Applications written by Otto J. Adlhart, Peter Rohonyi, Dean Modroukas and Jack Driller. ASAIO Journal, 1997.
	Progress in Planar SOFC Science and Technology by A.C. Khandkar, S. Elangovan and J.J. Hartvigsen, 1996.
	Solid Oxide Fuel Cells: Materials and Technology by Timothy R. Armstrong and Jeffry W. Stevenson, 1996.
	The Westinghouse Solid Oxide Fuel Cell Program, 1996 IEEE. A Status Report written by Stephen E. Veyo.
	Get Your O <sub>2</sub> 's High Temperature Electroceramic Oxygen Separation and Reaction. Written by T.J. Mazanec. The Electrochemical Society Interface - Winter 1996.
	Cubukcu et al; U.S. Patent Application No. 09/592,190; Filed: 12-Jun-2000; Title: CERAMIC COMPOSITE ELECTROLYTIC DEVICE (reference copy not enclosed)

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